

PHILIPS

Clock Radio

4000 Series

TAR4600



User manual

Register your product and get support at:
www.philips.com/support

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1 Important

Safety

- Read these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the clock radio.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Battery usage CAUTION - To prevent battery leakage which may result in bodily injury, property damage, or damage to the clock radio:
 - Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, ni-mh, etc.) batteries.
 - CAUTION: Danger of explosion if batteries are incorrectly replaced. Replace only with the same or equivalent type.
 - Battery in extreme high or low temperatures during use, storage or transportation, and low air pressure at high altitude can pose safety hazards.
 - Do not replace a battery with an incorrect type that can defeat a safeguard (for example, some lithium battery types).
 - Leaving a battery in an extremely high temperature surrounding, or an extremely low air pressure environment may result in an explosion or leakage of flammable liquid or gas.
 - Install all batteries correctly, + and - as marked on the unit.
 - Remove batteries if they are exhausted or if the remote control (if included) is not to be used for a long time.
 - Batteries contain chemical substances. They should be disposed of properly.

If you suspect that a battery has been swallowed or placed inside any part of the body, seek immediate medical attention.
 - When you change the batteries, always keep all new and used batteries out of reach of children. Ensure that the battery compartment is completely secure after you replace the battery.
 - If the battery compartment cannot be completely secured, discontinue use of the product. Keep out of reach of children and contact the manufacturer.
 - This clock radio shall not be exposed to dripping or splashing.
 - Do not place any sources of danger on the clock radio (e.g. liquid filled objects, lighted candles).
 - Where the plug of the Direct Plug-in Adapter is used as the disconnect device, the disconnect device shall remain readily operable.
 - Please use the product safely in an environment with temperature between 0°C and 45°C.

2 Your clock radio

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at www.philips.com/support.

Introduction

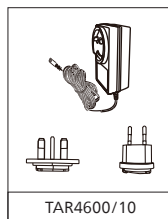
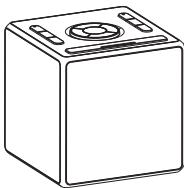
With this clock radio, you can

- listen to FM and Digital Audio Broadcasting (DAB) radio;
- set two alarms to ring at different times;
- charge your mobile devices.

What's in the box

Check and identify the contents of your package:

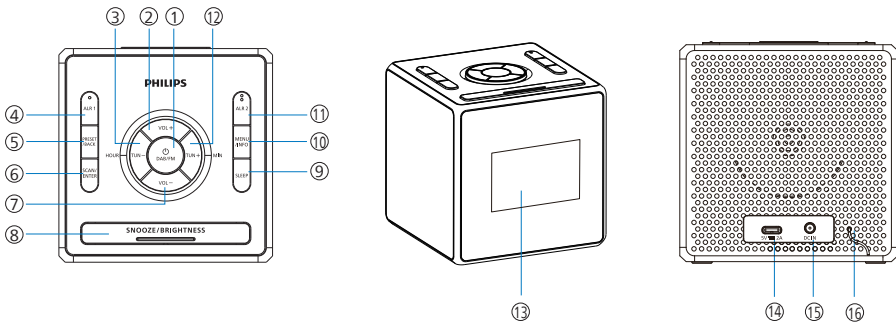
- Main unit
- Power adaptor
- Quick start guide
- Safety sheet
- Warranty



Note

- Power adaptor quantity and plug type vary by regions.
- Images, illustrations and drawings shown on this user manual are for reference only. actual product may vary in appearance.

Overview of the clock radio



- | | |
|---|--|
| <p>① ⏻ / DAB / FM</p> <ul style="list-style-type: none"> • Turn on or switch to standby. • Switch to DAB/FM source. <p>② VOL +</p> <ul style="list-style-type: none"> • Adjust volume. <p>③ HOUR / TUN -</p> <ul style="list-style-type: none"> • Set hour. • Tune to a radio stations. • Select previous preset station. • Select a menu option. <p>④ ALR 1</p> <ul style="list-style-type: none"> • Set alarm. <p>⑤ PRESET / BACK</p> <ul style="list-style-type: none"> • Store radio stations in memory. • Select a preset radio station. • Back to previous menu. • Exit menu setting. <p>⑥ SCAN / ENTER</p> <ul style="list-style-type: none"> • Scan and store radio stations automatically. • Enter selected menu item list. <p>⑦ VOL -</p> <ul style="list-style-type: none"> • Adjust volume. <p>⑧ SNOOZE / BRIGHTNESS</p> <ul style="list-style-type: none"> • Snooze alarm. • Adjust display brightness. | <p>⑨ SLEEP</p> <ul style="list-style-type: none"> • Set the sleep timer. <p>⑩ MENU / INFO</p> <ul style="list-style-type: none"> • Enter menu setting. • Info display. <p>⑪ ALR 2</p> <ul style="list-style-type: none"> • Set alarm. <p>⑫ MIN / TUN +</p> <ul style="list-style-type: none"> • Set minute. • Tune to a radio stations. • Select next preset station. • Select a menu option. <p>⑬ Display panel</p> <ul style="list-style-type: none"> • Display current status. <p>⑭ USB-type C charging out port</p> <ul style="list-style-type: none"> • Charge your mobile devices. <p>⑮ DC IN</p> <ul style="list-style-type: none"> • Connect to the supplied power adaptor. <p>⑯ DAB/FM Antenna</p> |
|---|--|

3 Get started

Always follow the instructions in this chapter in sequence.

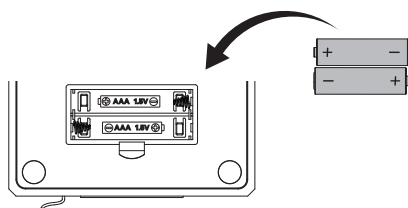
Install batteries

The batteries can only back up clock and alarm settings.



Caution

- Risk of explosion! Keep the batteries away from heat, sunshine or fire. Never discard batteries in fire.
- Batteries contain chemical substances, so they should be disposed of properly.
- Do not mix battery types: e.g. alkaline with carbon zinc. Only use batteries of the same type for the set.



- 1 Open the battery compartment at the bottom of the unit.
- 2 Insert 2 pcs AAA batteries (not supplied) with correct polarity (+/-) as indicated, then close the battery compartment.

Connect power



Caution

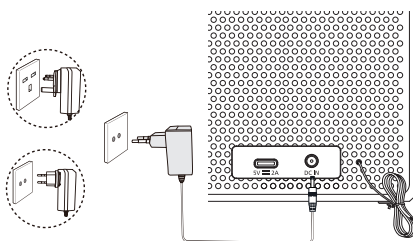
- Risk of product damage! Make sure that the power voltage corresponds to the voltage printed on the back or underside of the clock radio.
- Risk of electrical shock! When you unplug the power cord, always pull the plug from the socket. Never pull the cord.



Note

- The type plate is located at the bottom of the clock radio.



Connect the power adapter to the wall outlet.



Note

- Power adaptor quantity and plug type vary by regions.
- Images, illustrations and drawings shown on this user manual are for reference only. actual product may vary in appearance.

Turn on/Switch to standby

- Press  to turn the unit on.
↳ The radio switches to the last selected source.
- Press  for 3 seconds to switch the unit to Standby.
↳ The time and date (if set) are displayed.

Adjust volume

While listening, press **VOL+**/**VOL-** to adjust volume.

Adjust display brightness

Press **BRIGHTNESS** to select different brightness levels or turn off the display screen:

- High
- Medium
- Low
- Off

4 Clock/Alarm setting

Automatically setting the clock

- 1 Press **MENU** to access the Clock setting.
- 2 Press **ENTER** to enter <Set Date&Time>.
- 3 Press **TUN+ /TUN-** to select <Auto>, then press **ENTER** to confirm.
- 4 Press **BACK** to exit the setup mode.

In DAB/FM RDS station, the unit can synchronize with time transmitted by DAB/FM RDS station (with CT information) automatically.

Manually setting the clock

- 1 Press **MENU** to access the Clock setting.
- 2 Press **ENTER** to enter <Set Date&Time>.
- 3 Press **TUN+ /TUN-** to select <Manual>, then press **ENTER** to confirm, the month will blink.
- 4 Press **TUN+ /TUN-** to set month, then press **ENTER** to confirm, the day will blink.
- 5 Press **TUN+ /TUN-** to set day, then press **ENTER** to confirm, the year will blink.
- 6 Press **TUN+ /TUN-** to set year, then press **ENTER** to confirm, the time will blink.
- 7 Press **HOUR** to set hour and press **MIN** to set minute, then press **ENTER** to confirm.
↳ The time is set.
- 8 Press **BACK** to exit the setup mode.

Set time format

- 1 Press **MENU** to access the Clock setting.
- 2 Press **TUN+ /TUN-** to select <Time Format>, then press **ENTER** to confirm.
- 3 Press **TUN+ /TUN-** to set <12H>/<24H> hour format, then press **ENTER** to confirm.
- 4 Press **BACK** to exit the setup mode.

Set date format

- 1 Press **MENU** to access the Clock setting.
- 2 Press **TUN+ /TUN-** to select <Date Format>, then press **ENTER** to confirm.
- 3 Press **TUN+ /TUN-** to set <MM-DD-YYYY>, <DD-MM-YYYY> or <YYYY-MM-DD> date format, then press **ENTER** to confirm.
- 4 Press **BACK** to exit the setup mode.



Note

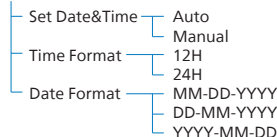
- If no button is pressed in approx 30 seconds, the unit exits clock setting mode automatically.
- Press and hold **BACK** for 3 seconds to exit timer setting mode without storing.

Show menu

When the unit in standby mode, you can access the menu for control options.

- 1 Press **MENU** to access Clock setting.
- 2 Press **TUN+ /TUN-** to select a menu option, and then press **ENTER** to confirm the option or enter the lower-level menu.
 - **[Set Date&Time]**: to set date, time.
 - **[Time Format]**: to select time format.
 - **[Date Format]**: to select date format.
- 3 Repeat steps 2 if any sub-option is available under one option.
- 4 Press **BACK** to return to the previous menu or exit the menu.

Clock setting











Note

- If no button is pressed within 30 seconds, the menu exits.
- Press and hold **BACK** for 3 seconds to exit the menu.

Set alarm time

Note





- Make sure that you have set the clock correctly.
- 1 Press and hold **ALR 1** or **ALR 2** for 3 seconds to activated the alarm setup mode, the icon  or  and alarm time will blink.
 - 2 Press **HOUR** to set hour and press **MIN** to set minute, then press **ALR 1** or **ALR 2** to confirm, the icon  or  and alarm period will blink.
 - 3 Press **TUN+ / TUN-** to select alarm period (ONCE, DAILY, WEEKDAY, WEEKEND), then press **ALR 1** or **ALR 2** to confirm, the icon  or  and alarm source will blink.
 - 4 Press **TUN+ / TUN-** to select alarm source (Buzzer, DAB or FM station), then press **ALR 1** or **ALR 2** to confirm.
 - If DAB or FM is selected as the alarm source, the icon  or  and station preset number will blink, press **TUN+ / TUN-** to select DAB or FM preset radio station, then press **ALR 1** or **ALR 2** to confirm.

Tip

- The unit exits alarm setting mode when being idle for 30 seconds.
- If DAB/FM source is selected and not preset the station, Buzzer is activated automatically.
- Alarm timeout is 60 minutes if no user action.

Activate/deactivate alarm timer

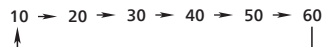
Press **ALR 1** or **ALR 2** to activate or deactivate the alarm timer.

- ↳ If the alarm timer is activated, the icon  or  and alarm information will appear.
- ↳ If the alarm timer is deactivated, the icon  or  and alarm information will disappear.


Snooze the alarm

When the alarm sounds, press **SNOOZE**.

- ↳ The alarm snoozes and repeats ringing 10 minutes later.
- During alarm snooze time, press **SNOOZE** to select another period (in minutes) to ringing gain.



Stop alarm sounds

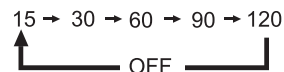
When the alarm sounds, press  or corresponding **ALR 1 / ALR 2**.

- ↳ the alarm stops but the alarm settings remain.

Set sleep timer

This clock radio can switch to standby mode automatically after a preset period.

- Press **SLEEP** to select a period (in minutes).
 - ↳ The clock radio switches to standby mode automatically after the preset period.



To deactivate the sleep timer:

- Press **SLEEP** until [OFF] (off) appears.

5 Listen to DAB radio



Note

- Keep the clock radio away from other electronic devices to avoid radio interference.
- For better reception, fully extend and adjust the position of the DAB/FM antenna.

Tune to DAB radio stations

The first time you select DAB radio mode, or if the station list is empty, the radio performs a full scan automatically.

- Press **DAB/FM** to select DAB mode.
 - ↳ [Scanning] is displayed.
 - ↳ The radio scans and stores all the DAB radio stations automatically, and then broadcasts the first available station.
 - ↳ The station list is memorized in the radio. Next time when you turn on the radio, the station scan does not take place.

To tune to a station from the available station list:

- 1 Press **TUN+ / TUN-** to navigate through the available DAB stations.
- 2 Press **ENTER** to confirm.



Tip

- The stations may change from time to time. To update the station list, press and hold **SCAN** for 3 seconds to perform full scan.

Store DAB radio stations



Note

- You can store a maximum of 20 DAB radio stations.

- 1 In DAB mode, tune to a DAB radio station.
- 2 Press and hold **PRESET** for 3 seconds to activate programming mode.
 - ↳ The "Preset Store" is displayed.
 - ↳ The preset number begins to blink.
- 3 Press **TUN+ / TUN-** to select a number.
- 4 Press **PRESET** again to confirm.
 - ↳ The "Stored" is displayed.
 - ↳ The station is stored in the selected position.
- 5 Repeat steps 1 to 4 to store more DAB radio stations.



Tip

- To remove a pre-stored station, store another station in its place.

Select a preset radio station

Option A:

In DAB mode, press **PRESET** to select a preset number.

Option B:

- 1 In DAB mode, press **PRESET**.
- 2 Press **TUN+ / TUN-** to select a preset radio station.



Note

- After 3 seconds, preset radio station will be confirm automatically.

Show DAB information

While listening to DAB radio, press and hold **INFO** for 3 seconds to display the following information (if available):

- ↳ DAB or DAB+
- ↳ Station Name
- ↳ Scrolling text
- ↳ Programme type
- ↳ Multiplex name
- ↳ Channel
- ↳ Frequency
- ↳ Mode : Transfer speed
- ↳ Mode : Channel type
- ↳ Signal quality



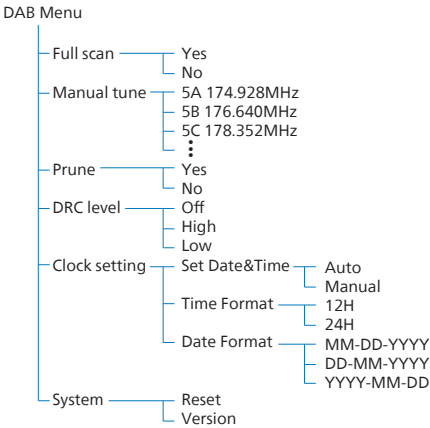
Note

- If no button is pressed within 30 seconds, the menu exits.
- Press and hold **BACK** for 3 seconds to exit the menu.

Show menu in DAB mode

When you listen to DAB, you can access the menu for control options.

- 1 Press **MENU** to access DAB menu.
- 2 Press **TUN + /TUN-** to select a menu option, and then press **ENTER** to confirm the option or enter the lower-level menu.
 - **[Full scan]**: to perform full scan
 - **[Manual tune]**: tune to a specific channel /frequency manually and add it to the station list.
 - **[Prune]**: remove all the invalid stations from the station list.
 - **[DRC level]**: compress the dynamic range of a radio signal, so that the volume of quiet sounds is increased, and the volume of loud sounds is reduced.
 - **[Clock setting]**: to set date, time and select time, date format.
 - **[System]**: for display the current version of the firmware and for reset all radio settings to the factory default status.
- 3 Repeat steps 2 if any sub-option is available under one option.
- 4 Press **BACK** to return to the previous menu or exit the menu.



6 Listen to FM radio

Note

- Keep the clock radio away from other electronic devices to avoid radio interference.
- For better reception, fully extend and adjust the position of the DAB/FM antenna.

Tune to FM radio stations

- 1 Press **DAB/FM** to select FM mode.
- 2 Press and hold **TUN+ /TUN-** for 3 seconds.
↳ The clock radio tunes to a station with strong reception automatically.
- 3 Repeat Step 2 to tune to more radio stations.

To tune to a station manually:

Press **TUN+ /TUN-** to select a frequency.

Note

- The tuning grid of the clock radio is 50KHz, the radio frequency on the display panel will increase 0.05MHz by pressing **TUN+ /TUN-**.

Store FM radio stations automatically

In FM tuner mode, press and hold **SCAN** for 3 seconds.

- ↳ The unit stores all the available FM radio stations automatically and broadcasts the first station.

Note

- You can store a maximum of 20 FM radio stations.

Store FM radio stations manually

- 1 In FM tuner mode, tune to an FM radio station.
- 2 Press and hold **PRESET** for 3 seconds to activate programming mode.
↳ The preset number begins to blink.
- 3 Press **TUN+ /TUN-** to select a number.
- 4 Press **PRESET** again to confirm.
- 5 Repeat steps 1 to 4 to store more FM radio stations.

Tip

- To remove a pre-stored station, store another station in its place.

Select a preset radio station

Option A:

In FM tuner mode, press **PRESET** to select a preset number.

Option B:

- 1 In FM tuner mode, press **PRESET**.
- 2 Press **TUN+ /TUN-** to select a preset radio station.

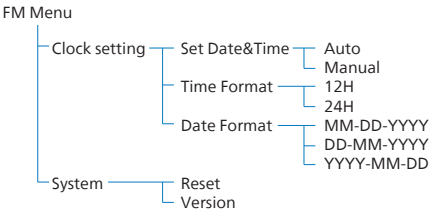
Note

- After 3 seconds, preset radio station will be confirm automatically.

Show menu in FM mode

When you listen to FM, you can access the menu for control options.

- 1 Press **MENU** to access FM menu.
- 2 Press **TUN + /TUN -** to select a menu option, and then press **ENTER** to confirm the option or enter the lower-level menu.
 - **[Clock setting]**: to set date, time and select time, date format.
 - **[System]**: for display the current version of the firmware and for reset all radio settings to the factory default status.
- 3 Repeat steps 2 if any sub-option is available under one option.
- 4 Press **BACK** to return to the previous menu or exit the menu.



Show RDS information

RDS (Radio Data System) is a service that allows FM stations to show additional information.

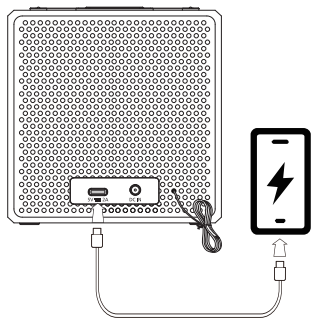
- 1 Tune to an RDS station.
- 2 Press and hold **INFO** for 3 seconds to displayed the following information (if available):
 - ↳ Station name
 - ↳ Program type such as [NEWS] (news), Frequency, [SPOR T] (sport), [POP M] (pop music)...
 - ↳ Time
 - ↳ Text

Note

- If no button is pressed within 30 seconds, the menu exits.
- Press and hold **BACK** for 3 seconds to exit the menu.

7 Other features

USB- type C port for charging out



Connect the standard size end of a USB cable (not included) to the USB-type C Port on back of the unit and connect the other end to the charging port on your device.

8 Product specifications

Note

- Product information is subject to change without prior notice.

Amplifier	
Output Power	RMS 700mW @10% THD; Max.1.4W

Tuner	
Tuning Range(FM)	87.5-108 MHz
Tuning Range(DAB)	174-240 MHz (Band III)
Tuning Grid	50 KHz
Sensitivity - Mono, 26 dB S/N Ratio	<22 dBf
Total Harmonic Distortion	<10%
Signal to Noise Ratio	>50 dBA

USB-type C charging port	
Charging out	5.0V \Rightarrow 2.0A

General information	
Power Supply	5.0V \Rightarrow 3.0A
Operation Power Consumption	<1.5 W
Standby Power Consumption	<1 W
Dimensions (W x H x D)	103x103.5x103 mm
Weight (Main unit)	375 g

9 Troubleshooting



Warning

- Never remove the casing of the product.

To keep the warranty valid, never try to repair the device yourself. If you encounter problems when using this device, check the following points before requesting service. If the problem remains unsolved, go to the Philips webpage www.philips.com/support. When you contact Philips, make sure that the device is nearby and the model number and serial number are available.

No power

- Make sure that the AC power plug of the unit is connected properly.
- Make sure that there is power at the AC outlet.

No sound

- Adjust the volume.

No response from the unit

- Disconnect and reconnect the AC power plug, then turn on the unit again.

Poor radio reception

- Keep the clock radio away from other electronic devices to avoid radio interference.
- Fully extend and adjust the position of the antenna.

Alarm does not work

- Set the clock/alarm correctly.

Clock/alarm setting erased

- Power has been interrupted or the power plug has been disconnected.
- Reset the clock/alarm.
- Replace the backup batteries.

10 Notice

Compliance

Any changes or modifications made to this device that are not expressly approved by MMD Hong Kong Holding Limited may void the user's authority to operate the product. Hereby, TP Vision Europe B.V. declares that the product is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU and UK Radio Equipment Regulations SI 2017 No 1206. You can find the Declaration of Conformity on www.philips.com/support.



This product complies with the radio interference requirements of the European Community.



This product is designed and manufactured with high-quality materials and components, which can be recycled and reused.



This symbol means the product must not be discarded as household waste and should be delivered to an appropriate collection facility for recycling. Follow local rules and never dispose of the product and rechargeable batteries with normal household waste. Correct disposal of old products and rechargeable batteries helps prevent negative consequences for the environment and human health.



This symbol means that the product contains batteries covered by European Regulation (EU) 2023/1542 which cannot be disposed of with normal household waste. Inform yourself about the local separate collection system for electrical and electronic collection system for electrical and electronic products and batteries. Follow local rules and never dispose of the product and batteries with normal household waste. Correct disposal of old products and batteries helps prevent negative consequences for the environment and human health.



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